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INDEX TO AMERICAN BOTANICAL LITERATURE

1910-1921

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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Knuth, R. Zwei neue *Dioscorea* aus Brasilien. Notizbl. Bot. Gart. und Mus. Berlin-Dahlem 7: 538, 539. 1 Mr 1921.

Korstian, C. F., Hartley, C., Watts, L. F., & Hahn, G. G. A chlorosis of conifers corrected by spraying with ferrous sulphate. Jour. Agr. Research 21: 153-171. f. 1-4. 2 My 1921.

Kränzlin, F. Orchidaceae Dusenianae novae. Arkiv Bot. 16⁸: 1-30 6 Ap 1920.

Includes new species from Brazil (23), and Mexico (4), the latter collected by Bourgeau.

Lee, H. A. The increase in resistance to citrus canker with the advance in maturity of *Citrus* trees. Phytopathology 11: 70-73. F 1921.

Lehman, S. G. Soft rot of pepper fruits. Phytopathology 11: 85-87. F 1921.

Lindstrom, E. W. Concerning the inheritance of green and yellow pigments in maize seedlings. Genetics 6: 91-110. Ja 1921.

Livingston, B. E., & Hawkins, L. A. The water-relation between plant and soil. Carnegie Instit. Washington Publ. 204: 1-48. f. 1-3. 10 Mr 1915.

- Lloyd, F. E.** Guayule (*Parthenium argentatum* Gray). A rubber-plant of the Chihuahuan desert. Carnegie Instit. Washington Publ. 139: 1-213. *pl.* 1-46 + *f.* 1-20. 27 J1 1911.
- MacDougal, D. T.** A new high temperature record for growth. Science II. 53: 370-372. 15 Ap 1921.
- MacDougal, D. T., & Spalding, E. S.** The water-balance of succulent plants. Carnegie Instit. Washington Publ. 141: 1-77. *pl.* 1-8 + *f.* 1-16. 29 D 1910.
- Macpherson, G. E.** Comparison of development in dodder and morning glory. Bot. Gaz. 71: 392-398. *pl.* 25-27. 16 My 1921.
- Malme, G. O. A.-N.** Asclepiadaceae riograndenses adjectis notulis de ceteris Asclepiadaceis in Brasilia extratropica, Uruguay et Misiones collectis. Arkiv Bot. 16¹⁵: 1-34. 23 D 1920.
Includes new species in *Roulinia* (1), *Calostigma* (1).
- Mameli de Calvino, E.** Estudios anatomicos y fisiologicos sobre la caña de azucar en Cuba. Estac. Exper. Agron. Santiago, Cuba, Bol. 46: 1-49. *f.* 1-21.
- Marsh, C. D., & Clawson, A. B.** Poisonous properties of the whorled milkweeds *Asclepias pumila* and *A. verticillata* var. *Geyeri*. U. S. Dept. Agr. Bull. 942: 1-14. *pl.* 1-3 + *f.* 1, 2. 4 My 1921.
- Mason, T. G.** A note on some recent researches on the cotton plant in the West Indies, with special reference to St. Vincent. West Indian Bull. 18: 184-197. *pl.* 1, 2. [1921.]
- Mason, T. G.** The water-balance of the plant and its significance in crop production. West Indian Bull. 18: 157-184. [1921.]
- Massey, L. M.** Experimental data on losses due to crown-canker of rose. Phytopathology 11: 125-134. Mr 1921.
- Matz, J.** Infection and nature of the yellow stripe disease of cane (mosaic, mottling, etc.). Jour. Dept. Agr. Porto Rico 3⁴: 65-82. *f.* 1-11. O 1919.
- Matz, J.** Observaciones en la gomosis de la caña en Puerto Rico. Revista Agr. Puerto Rico 6⁴: 33-39. 30 Ap 1921. [Illust.]
- [**Maxon, W. R., & Killip, E. P.**] Botanical exploration in Jamaica [1920]. Smithsonian Misc. Coll. 72⁶: 49-54. *f.* 61-66. 1921.
- Mayes, J.** The practical control of weeds in Missouri meadows and pastures. Bull. Missouri Board Agr. 18: 1-36. Je 1920. [Illust.]
- McAtee, W. L.** Notes on *Viburnum* and the assemblage Caprifoliaceae. Bull. Torrey Club 48: 149-154. *f.* 1. 25 My 1921.
- McDougall, W. B.** Thick-walled root hairs of *Gleditsia* and related genera. Am. Jour. Bot. 8: 171-175. *f.* 1-3. 3 Ap 1921.

- McLean, F. T.** A study of the structure of the stomata of two species of *Citrus* in relation to citrus canker. Bull. Torrey Club **48**: 101-106. f. 1. 4 Ap 1921.
- McLean, F. T., & Lee, H. A.** The resistance to citrus canker of *Citrus nobilis* and a suggestion as to the production of resistant varieties in other *Citrus* species. Phytopathology **11**: 109-114. f. 1. Mr 1921.
- McNair, J. B.** A study of *Rhus diversiloba* with special reference to its toxicity. Am. Jour. Bot. **8**: 127-146. pl. 2 + f. 1, 2. 3 Ap 1921.
- McNair, J. B.** The morphology and anatomy of *Rhus diversiloba*. Am. Jour. Bot. **8**: 179-191. pl. 3, 4. 30 Ap 1921.
- McNair, J. B.** The transmission of *Rhus* poison from plant to person. Am. Jour. Bot. **8**: 238-250. 24 My 1921.
- Menaul, P.** Note on the formation of hydrocyanic acid in plants. Jour. Biol. Chem. **46**: 297. Ap 1921.
- Merriman, M. L.** The receptacle of *Achillea Millefolium* L. Torreya **21**: 21-24. f. 1-5. Ap 1921.
- Morse, W. J.** The transference of potato late blight by insects. Phytopathology **11**: 94-96. F 1921.
- Mousley, H.** Further notes on the orchids of Hatley, Stanstead Co., Quebec, 1920. Canad. Field Nat. **34**: 169-173. 12 My 1921.
- Muttkowski, R. A.** Copper in animals and plants. Science II. **53**: 453, 454. 13 My 1921.
- Needham, J. G.** A biological examination of Lake George, N. Y. Sci. Mo. **12**: 434-438. My 1921.
- Nelson, J. C.** Additions to the flora of western Oregon during 1920. Torreya **21**: 24-28. Ap 1921.
- Oakley, R. A., & Evans, M. W.** Rooting stems in timothy. Jour. Agr. Research **21**: 173-178. pl. 39, 40. 2 My 1921.
- Orton, C. R.** Lightning injury to potato and cabbage. Phytopathology **11**: 96-98. f. 1. F 1921.
- Palmer, E. J.** Botanical reconnaissance of southern Illinois. Jour. Arnold Arbor. **2**: 129-153. Ja 1921.
- Peattie, D. C.** An interesting habitat. Rhodora **23**: 69-71. 20 Ap 1921.
- Pennell, F. W.** "Veronica" in North and South America. Rhodora **23**: 1-22, 29-41. 1921.
Includes *Veronica catenata* sp. nov., and several new combinations.
- Pieters, A. J., & Kephart, L. W.** Annual white sweet clover and strains of the biennial form. U. S. Dept. Agr. Dept. Circ. 167: 1-21. f. 1-8. Ap 1921.

- Piper, C. V.** Two new legumes from Mexico and Costa Rica. Proc. Biol. Soc. Washington **34**: 41, 42. 31 Mr 1921.
Phaseolus chiapasanus and *Calopogonium ferrugineum* sp. nov.
- Pool, R. J., Weaver, J. E., & Jean, F. C.** Further studies in the ecotone between prairie and woodland. Univ. Nebraska Stud. **18**: 1-47. f. 1-17. 1918.
- Pritchard, F. J., & Porte, W. S.** Collar-rot of tomato. Jour. Agr. Research **21**: 179-184. pl. 41-45. 2 My 1921.
Includes *Verticillium Lycopersici* sp. nov.
- Puttemans, A.** *Gloeosporium Bombacis*, n. sp. Bull. Soc. Path. Veg. **7**: 74, 75. 1 S 1920.
- Puttemans, A.** Sur l'*Oidium* du Chêne au Brésil. Bull. Soc. Path. Veg. **7**: 37-40. 1 Je 1920.
- Rathbun, A. E.** Methods of direct inoculation with damping-off fungi. Phytopathology **11**: 80-84. f. 1-3. F 1921.
- Record, S. J.** Further notes on intercellular canals in dicotyledonous woods. Jour. For. **19**: 255-266. Mr 1921.
- Reed, H. S.** Growth and sap concentration. Jour. Agr. Research **21**: 81-98. f. 1-7. 1 Ap 1921.
- Rehder, A.** *Azalea* or *Loiseleuria*. Jour. Arnold Arbor. **2**: 156-159. Ja 1921.
- Rehder, A.** *Philadelphus verrucosus* Schrader spontaneous in Illinois. Jour. Arnold Arbor. **2**: 153-156. Ja 1921.
- Ricalton, J.** Famous and interesting trees. Am. For. **27**: 216-224. Ap 1921. [Illust.]
- Richards, H. M.** Acidity and gas interchange in Cacti. Carnegie Instit. Washington Publ. 209: 1-107. f. 1-6. 11 Au 1915.
- Riker, A. J.** Chondriomes in *Chara*. Bull. Torrey Club **48**: 141-148. pl. 3. 25 My 1921.
- Rosen, H. R.** Further observations on a bacterial root and stalk rot of field corn. Phytopathology **11**: 74-79. f. 1-4. F 1921.
- Roth, G.** Die aussereuropäischen Laubmoose. Nachtr. 1 [zu Band 1]: 1-18. pl. 1, 2. 25 Ap 1912; Nachtr. 2: 1-8. pl. 1. 1 N 1913; Nachtr. 3: 1-6. pl. 1. 18 O 1915.
- Rowlee, W. W.** Tropical trees with light-weight wood. Jour. New York Bot. Gard. **22**: 75-78. Ap 1921.
- Rusby, H. H.** Guide to the Economic Museum of the New York Botanical Garden. Bull. New York Bot. Gard. **11**: 1-318. 30 Ap 1921.
Includes a few new combinations, such as *Acyntha Kirkii* (Baker) Rusby, page 23.

- Saccardo, P. A.** Mycetes Boreali-Americani a cl. Doct. J. R. Weir (Spokane, Washington) an. MCMXIX communicati. Nuov. Giorn. Bot. Ital. II. **27**: 75-88. D 1920.
Includes 30 new species.
- Sanders, E. M.** The natural regions of Mexico. Geog. Rev. **11**: 212-226. f. 1-5. Ap 1921.
Includes a vegetation map of Mexico.
- Savelli, R.** Anomalie delle plantule e anomalie di germinazione in *Nicotiana*. Nuov. Giorn. Bot. Ital. II. **27**: 129-153. D 1920.
- Schaffner, J. H.** Additions to the catalog of Ohio vascular plants for 1920. Ohio Jour. Sci. **21**: 128-135. F 1921.
- Schaffner, J. H.** Reversal of the sexual state in certain types of monocious inflorescences. Ohio Jour. Sci. **21**: 185-198. pl. 1, 2. Ap 1921.
- Schill, J. F.** Crassulacea-Statistiek en geografischeverspreiding (1737-1910). Succulenta **3**: 12-15. 9 Mr 1921.
- Schlechter, R.** Die Gattung *Promenaea* Ldl. Notizbl. Bot. Gart. und Mus. Berlin-Dahlem **7**: 467-481. 1 Mr 1921.
Includes 5 new species from Brazil.
- Schlechter, R.** Über einige neue Orchidaceen aus Colombia. Notizbl. Bot. Gart. und Mus. Berlin-Dahlem **7**: 527-532. 1 Mr 1921.
New species in *Stelis* (1), *Pleurothallis* (4), *Epidendrum* (1).
- Schultz, E. S., & Folsom, D.** Leafroll, net-necrosis and spindling-sprout of the Irish potato. Jour. Agr. Research **21**: 47-80. pl. 1-12. 1 Ap 1921.
- Scofield, C. S.** Cotton rootrot in the San Antonio rotations. Jour. Agr. Research **21**: 117-125. 2 My 1921.
- Sears, P. B.** Vegetation mapping. Science II. **53**: 325, 326. 8 Ap 1921.
- [**Shantz, H. L.**] Botanical collecting in Africa [1919, 1920]. Smithson. Misc. Coll. **72**⁶: 31-38. f. 44-49. 1921.
- Shaw, G. R.** The genus *Pinus*. Publ. Arnold Arbor. **5**: 1-96. pl. 1-39. 1914.
- Shreve, E. B.** The daily march of transpiration in a desert perennial. Carnegie Instit. Washington Publ. 194: 1-64. pl. 1 + f. 1-27. 13 Ap 1914.
- Shreve, F.** The vegetation of a desert mountain range as conditioned by climatic factors. Carnegie Instit. Washington Publ. 217: 1-112. pl. 1-36 + f. 1-18. 28 O 1915.

- Shull, G. H.** *Bursa Bursa-pastoris* and *Bursa Heegeri*: biotypes and hybrids. Carnegie Instit. Washington Publ. 112: 1-57. *pl.* 1-4 + *f.* 1-23. 1909.
- Skottsberg, C.** Botanische Ergebnisse der Schwedischen Expedition nach Patagonien und dem Feuerlande 1907-1909. VIII. Marine Algae 1. Phaeophyceae. Kungl. Svenska Vetenskapakad. Handl. 61¹¹: 1-56. *f.* 1-20. 1921.
Includes *Gononema* and *Cladochroa*, gen. nov., and new species in *Streblonema* (1), *Myrionema* (2), *Lithoderma* (1), *Ralfsia* (1), *Elachista* (2), *Mesogloea* (1), *Scythamnus* (1).
- Small, J. K.** Old trails and new discoveries. Jour. New York Bot Gard. 22: 25-40. *pl.* 253, 254. F 1921; 22: 49-64. *pl.* 255, 256. Mr 1921.
Collecting in southern Florida. Includes *Diospyros Mosieri*, sp. nov.
- Smith, E. F., & McKenney, R. E. B.** A dangerous tobacco disease appears in the United States. U. S. Dept. Agr. Dept. Circ. 174: 1-6. Ap 1921.
- Snell, W. H.** The relation of the moisture content of wood to its decay, with special reference to the spraying of log piles. Pulp and Paper Mag. 19: 531-533. *f.* 1, 2. 19 My 1921.
- Standley, P. C.** Flora of Glacier National Park, Montana. Contrib. U. S. Nat. Herb. 22: 235-438 + I-XVII. *pl.* 33-52. 1921.
- Standley, P. C.** Rubiaceae (*pars*). N. Am. Fl. 32: 87-158. 10 My 1921.
Includes new species in *Pinarophyllon* (1), *Deppea* (1), *Bouvardia* (12), *Ravnia* (1), *Hillia* (1), *Exostema* (5), and *Tontanea* (1).
- Steil, W. N.** The distribution of the archegonia and the antheridia on the prothallia of some homosporous leptosporangiate ferns. Trans. Am. Micros. Soc. 38: 271-273. O 1919.
- Steil, W. N.** Secondary prothallia of *Nephrodium hirtipes* Hk. Trans. Am. Micros. Soc. 38: 229-234. *pl.* 25, 26. Jl 1919.
- Stevenson, J. A.** Enfermedades del citro en Puerto Rico. Revista Agric. Puerto Rico 4⁶: 9-19. Je 1920.
[Corrected reprint.]
- Stockberger, W. W.** Ginseng culture. U. S. Dept. Agr. Farmers' Bull. 1184: 1-16. *f.* 1-3. Ap 1921.
- Strausbaugh, P. D.** Dormancy and hardiness in the plum. Bot. Gaz. 71: 337-357. *f.* 1-4. 16 My 1921.
- Strayer, O. B.** Rejuvenating pecan trees. Am. For. 27: 238. Ap 1921.